

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P824184

Luminaire Tested: CB2-D-030U-120D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824184  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-D-030U-120D-830-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
2-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 300 LUMENS PER FOOT  
Light Source: 80 CRI, 3000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5456.5 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Semi-Direct

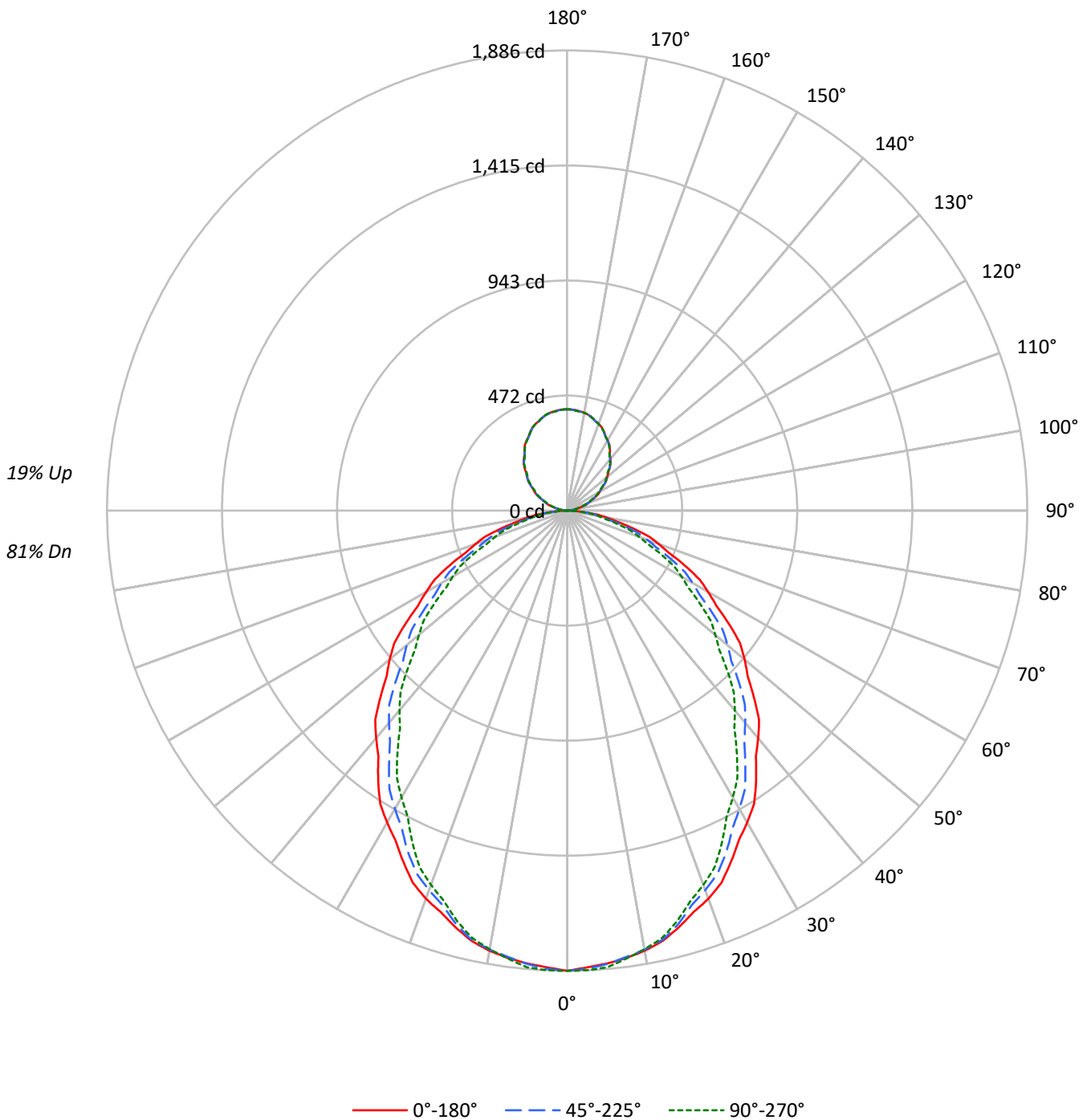
Input Watts (W): 51.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P824184

CATALOG NUMBER: CB2-D-030U-120D-830-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P824184

CATALOG NUMBER: CB2-D-030U-120D-830-1D-UNV-STD-W-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	81
1	105	100	97	93	100	96	93	90	89	86	83	82	79	77	75	73	72	68
2	96	88	82	77	91	85	79	74	78	73	70	72	68	65	66	63	61	58
3	88	78	70	64	84	75	68	62	69	64	59	64	59	55	59	55	52	49
4	80	69	61	55	77	67	59	53	62	56	51	57	52	48	53	49	45	43
5	74	62	54	47	71	60	52	46	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	65	54	46	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	33	57	45	37	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	23	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	32854	32854	32854
5°	32576	32627	32854
10°	32390	32314	32289
15°	31878	31669	31410
20°	31376	30679	30251
25°	30533	29672	28840
30°	29687	28380	27306
35°	28715	27057	25766
40°	27684	25813	24301
45°	26647	24514	22876
50°	25712	23246	21485
55°	24560	21930	20175
60°	23245	20678	18866
65°	21847	19288	17561
70°	20299	17727	15889
75°	18466	16037	14388
80°	16520	14052	13039
85°	12710	11551	9532

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26647 cd/sqm



TEST NUMBER: P824184

CATALOG NUMBER: CB2-D-030U-120D-830-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.4	3.3
10°-20°	494.5	9.1
20°-30°	711.0	13.0
30°-40°	799.1	14.6
40°-50°	771.9	14.1
50°-60°	652.2	12.0
60°-70°	468.5	8.6
70°-80°	256.1	4.7
80°-90°	68.0	1.2
90°-100°	16.0	0.3
100°-110°	66.1	1.2
110°-120°	120.0	2.2
120°-130°	163.2	3.0
130°-140°	188.4	3.5
140°-150°	189.9	3.5
150°-160°	163.9	3.0
160°-170°	111.1	2.0
170°-180°	39.2	0.7
0°-30°	1382.8	25.3
0°-40°	2182.0	40.0
0°-60°	3606.1	66.1
0°-90°	4398.7	80.6
90°-120°	202.1	3.7
90°-150°	743.6	13.6
90°-180°	1058.0	19.4
0°-180°	5456.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1863	1889	1866	1866	1879	177
15°	1768	1783	1756	1739	1742	498
25°	1589	1590	1544	1509	1501	731
35°	1350	1335	1272	1223	1212	844
45°	1082	1059	995	943	929	836
55°	809	779	722	677	664	723
65°	530	510	468	435	426	526
75°	274	258	238	219	214	294
85°	64	59	58	50	48	76
90°	0	0	0	0	0	3
95°	16	14	13	10	10	18
105°	65	64	63	59	59	69
115°	124	124	122	118	118	123
125°	185	187	183	179	179	165
135°	246	249	245	240	242	190
145°	305	309	304	300	302	191
155°	357	360	355	353	356	164
165°	394	398	393	391	395	111
175°	413	418	412	410	410	39
180°	415	415	415	415	415	

TEST NUMBER: P824184

CATALOG NUMBER: CB2-D-030U-120D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1886.3	1886.3	1886.3	1886.3	1886.3
2.5°	1873.6	1896.2	1879.4	1881.8	1885.2
5°	1863.2	1888.6	1866.1	1866.4	1879.1
7.5°	1849.9	1873.9	1845.6	1840.4	1852.2
10°	1831.4	1855.4	1827.1	1817.2	1825.7
12.5°	1807.2	1830.0	1802.8	1787.1	1794.5
15°	1767.9	1783.4	1756.3	1739.1	1741.9
17.5°	1725.1	1734.7	1695.7	1681.2	1678.3
20°	1692.8	1701.2	1655.2	1634.9	1632.1
22.5°	1651.2	1658.5	1610.2	1585.2	1581.3
25°	1588.8	1590.2	1544.0	1509.1	1500.7
27.5°	1523.5	1519.0	1467.7	1426.5	1415.5
30°	1476.1	1470.5	1411.1	1367.6	1357.7
32.5°	1425.3	1415.1	1355.7	1308.6	1298.8
35°	1350.5	1334.9	1272.5	1223.1	1211.8
37.5°	1270.7	1253.2	1191.9	1138.1	1125.4
40°	1217.6	1197.8	1135.3	1081.5	1068.8
42.5°	1164.4	1142.4	1078.6	1024.9	1011.0
45°	1081.8	1059.2	995.2	942.8	928.7
47.5°	1003.2	974.4	912.2	860.2	846.1
50°	948.9	917.9	857.9	807.1	792.9
52.5°	893.5	861.3	803.6	755.1	740.9
55°	808.8	779.2	722.2	677.1	664.4
57.5°	725.1	696.5	644.5	601.4	589.0
60°	667.3	643.3	593.6	552.9	541.6
62.5°	611.8	590.1	542.8	505.6	494.3
65°	530.1	510.3	468.0	434.6	426.1
67.5°	450.6	430.9	396.6	366.6	357.0
70°	398.6	378.9	348.1	320.5	312.0
72.5°	349.0	328.1	303.0	277.8	271.5
75°	274.4	257.5	238.3	219.4	213.8
77.5°	208.6	192.2	178.2	164.9	163.5
80°	164.7	150.5	140.1	131.4	130.0
82.5°	123.1	112.3	105.4	99.1	98.8
85°	63.6	59.3	57.8	50.5	47.7
87.5°	18.5	18.5	16.2	13.9	13.9
90°	0.0	0.0	0.3	0.0	0.3
92.5°	3.9	3.4	3.2	2.1	2.4
95°	15.5	13.6	12.9	10.0	10.0
97.5°	29.3	27.4	26.4	23.4	22.8
100°	39.1	37.2	36.2	33.0	32.4
102.5°	49.2	48.4	46.6	43.1	42.4
105°	65.3	64.4	62.8	59.2	58.6
107.5°	81.9	82.1	79.6	76.7	75.8
110°	93.8	93.5	91.6	88.6	88.0



TEST NUMBER: P824184

CATALOG NUMBER: CB2-D-030U-120D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	105.4	103.5	100.5	99.9
115°	124.2	123.9	121.6	118.1	117.8
117.5°	141.6	142.6	139.9	136.1	136.0
120°	154.0	155.3	152.1	148.8	148.2
122.5°	166.2	167.7	164.5	160.7	160.9
125°	184.7	186.6	182.8	178.9	179.2
127.5°	202.6	205.0	201.4	197.5	197.9
130°	214.8	217.7	213.8	209.7	210.3
132.5°	227.2	230.1	226.3	221.8	223.0
135°	246.2	249.0	244.9	240.4	242.0
137.5°	264.1	266.9	262.4	258.6	260.5
140°	276.0	278.8	274.0	270.5	272.4
142.5°	287.6	291.0	285.9	282.2	284.6
145°	305.1	308.6	303.8	300.3	302.5
147.5°	321.6	325.1	320.3	316.9	319.2
150°	332.2	335.7	330.6	327.8	330.3
152.5°	342.1	346.1	340.7	337.9	341.2
155°	356.8	360.3	355.2	353.0	355.9
157.5°	369.6	373.7	368.6	366.7	369.0
160°	378.2	382.0	376.9	375.0	377.5
162.5°	384.7	388.7	383.9	381.7	384.8
165°	394.4	398.5	393.4	391.2	394.7
167.5°	402.0	406.4	401.2	399.0	402.5
170°	406.7	410.8	405.4	402.9	406.7
172.5°	409.8	414.1	408.5	405.9	408.5
175°	413.1	417.6	412.2	409.6	410.5
177.5°	414.7	418.3	414.0	411.7	414.7
180°	414.7	414.7	414.7	414.7	414.7

TEST NUMBER: P824184  
 CATALOG NUMBER: CB2-D-030U-120D-830-1D-UNV-STD-W-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	21.60	22.81	22.25	23.46	24.22	20.50	21.71	21.15	22.36	23.12
	3H	23.27	24.35	23.93	25.02	25.81	22.06	23.14	22.71	23.80	24.59
	4H	23.92	24.93	24.59	25.61	26.42	22.64	23.66	23.32	24.34	25.14
	6H	24.34	25.28	25.03	25.97	26.78	23.03	23.97	23.72	24.66	25.48
	8H	24.49	25.39	25.20	26.10	26.92	23.18	24.08	23.88	24.79	25.61
	12H	24.58	25.43	25.29	26.14	26.99	23.26	24.11	23.96	24.81	25.66
4H	2H	22.05	23.07	22.73	23.75	24.55	21.18	22.20	21.86	22.87	23.68
	3H	23.95	24.80	24.64	25.52	26.34	22.94	23.79	23.63	24.51	25.33
	4H	24.71	25.48	25.42	26.20	27.05	23.63	24.40	24.34	25.12	25.97
	6H	25.25	25.92	25.98	26.66	27.52	24.12	24.79	24.85	25.54	26.40
	8H	25.46	26.09	26.19	26.83	27.70	24.32	24.95	25.05	25.69	26.56
	12H	25.58	26.15	26.34	26.91	27.79	24.43	24.99	25.18	25.75	26.63
8H	4H	24.89	25.52	25.63	26.26	27.13	23.93	24.55	24.66	25.29	26.17
	6H	25.55	26.07	26.31	26.85	27.73	24.55	25.06	25.31	25.85	26.72
	8H	25.84	26.30	26.62	27.09	27.98	24.83	25.29	25.60	26.07	26.96
	12H	26.03	26.44	26.81	27.21	28.16	24.99	25.40	25.77	26.17	27.12
12H	4H	24.89	25.45	25.64	26.22	27.09	23.95	24.51	24.70	25.28	26.15
	6H	25.58	26.04	26.36	26.83	27.72	24.61	25.07	25.39	25.86	26.75
	8H	25.91	26.32	26.69	27.09	28.05	24.93	25.34	25.71	26.11	27.07